

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

F 420-9210 (425) 420-9200 (509) 924-9200 924-9290

(503) 906-9200 FAX 906-9210 FAX 382-7588

## **CHAIN OF CUSTODY REPORT**

Work Order #:

(541) 383-9310

CLIENT: BRISTOL	parties .						ICE TO									TURNAROUND REQUEST in Business Days*					
REPORT TO: ANNE 1	CRANAWE	TE	R			BR	15	101							Organic & Inorganic Analyses           10         7         5         4         3         2         1         <1						
ADDRESS: AMOUNT																		4 3 2		<1	
PHONE: 907-770.		FAX: 17	0.0	201	75	P.O. N	UMRE	R· 2	109						-	STD.		3 2 1			
PROJECT NAME: AM	HITKA					1.0.11		- Inner	EDANA	ALYSES						STI	D	Please Speci			
PROJECT NUMBER: 2																	ОТН	ER Trease Speed	y		
SAMPLED BY: APK/K			5	( )					1.							*Turnaro	und Requests	less than standard may in	ur Rush Cha	ush Charges.	
CLIENT SAMPLE	SAMPLING		3	Meta												MATRIX	# OF			NCA WO	
IDENTIFICATION	DATE/TIME		BC	A												(W, S, O)	CONT.	COMMENT	rs	ID	
1. O IAMLAZOSL	8/2/01 1	810	X	X												5	2				
2. OLAMLA BOSL	8/2/01 1	815	X	X												S	2			11 <sup>4</sup> N <sub>1111</sub>	
3. OLAMLA 42 SL	8/2/01 19	8/8	X	X												S	2				
4. OIAMLAZGSL	8/2/01 18	625	X	X												5	2				
5. 01AMLA 365L	8/2/01 10	835	X	X												5	2				
6 CHAMIA 45 SL	8/2/01 10	845	X	*				ate particular de la constitución de la constitució	-			-		THE Chausule temperature and		5	2	for five	5 el "	proceedings of the second	
7. OLAMLABISL	8/2/01 1	854	X	×												5	2				
8. OTAMLA35SL	8/2/01 1	845	X	X												5	2				
9.						, ,										- 12/1					
10.			, , , , , , , , , , , , , , , , , , , ,																		
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	Etm-	FIRM: B	RIS	STO		DATE: TIME:	8/2,	101		VED BY	Cia	2	Sias	Ry	al l	← FIRM:				8/2/01	
RELINQUISHED BY:	<i>x</i>				2	DATE:			RECEI	VED BY				1					DATE:		
PRINT NAME:		FIRM:				TIME:			PRINT	NAME:						FIRM:			TIME:	<u> </u>	
ADDITIONAL REMARKS: COC REV 3/99																		TEMP: 10.5	PAGE	OF	



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503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/02/01 20:31. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

**Environmental Group Leader** 

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Work Orders included in this report:

M108005



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

**Reported:** 08/13/01 17:48

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

# ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMLA29SL	M108005-01	Soil	08/02/01 18:10	08/02/01 20:31
01AMLA30SL	M108005-02	Soil	08/02/01 18:15	08/02/01 20:31
01AMLA42SL	M108005-03	Soil	08/02/01 18:18	08/02/01 20:31
01AMLA26SL	M108005-04	Soil	08/02/01 18:25	08/02/01 20:31
01AMLA36SL	M108005-05	Soil	08/02/01 18:35	08/02/01 20:31
01AMLA31SL	M108005-06	Soil	08/02/01 18:54	08/02/01 20:31
01AMLA35SL	M108005-07	Soil	08/02/01 18:45	08/02/01 20:31

C. O. C. # 215

North Creek Analytical - Mobile Lab



Reported:

08/13/01 17:48

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

# Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA29SL (M108005-01) Soil					Sampled: 08/	02/01 Rece	eived: 08/02/	01	
Aroclor 1016	ND	145	ug/kg dry	1	EPA 8082	08/03/01	08/04/01	0108009	
Aroclor 1221	ND	290	"	"	"	"	"	"	
Aroclor 1232	ND	145	"	"	"	"	"	"	
Aroclor 1242	ND	145	"	"	"	"	"	"	
Aroclor 1248	ND	145	"	"	"	"	"	"	
Aroclor 1254	ND	145	"	"	"	"	"	"	
Aroclor 1260	ND	145	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	84.0 %	55-130							
Surr: Decachlorobiphenyl	63.7 %	55-130							
01AMLA30SL (M108005-02) Soil					Sampled: 08/	02/01 Rece	eived: 08/02/	01	
Aroclor 1016	ND	147	ug/kg dry	1	EPA 8082	08/03/01	08/04/01	0108009	
Aroclor 1221	ND	294	"	"	"	"	"	"	
Aroclor 1232	ND	147	"	"	"	"	"	"	
Aroclor 1242	ND	147	"	"	"	"	"	"	
Aroclor 1248	ND	147	"	"	"	"	"	"	
Aroclor 1254	ND	147	"	"	"	"	"	"	
Aroclor 1260	ND	147	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	64.3 %	55-130							
Surr: Decachlorobiphenyl	43.5 %	55-130							S-07
01AMLA42SL (M108005-03) Soil					Sampled: 08/	02/01 Rece	eived: 08/02/	01	
Aroclor 1016	ND	147	ug/kg dry	1	EPA 8082	08/03/01	08/04/01	0108009	
Aroclor 1221	ND	295	"	"	"	"	"	"	
Aroclor 1232	ND	147	"	"	"	"	"	"	
Aroclor 1242	ND	147	"	"	"	"	"	"	
Aroclor 1248	ND	147	"	"	"	"	"	"	
Aroclor 1254	ND	147	"	"	"	"	"	"	
Aroclor 1260	ND	147	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	99.1 %	55-130							
Surr: Decachlorobiphenyl	75.6 %	55-130							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

08/13/01 17:48

### Polychlorinated Biphenyls per EPA Method 8082 North Creek Analytical - Mobile Lab

Project Manager: Anne Kranawetter

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes	
Allaryte	Kesult	Lillit	Ullits	Dilution	Method	Frepareu	Allalyzeu	Dateii	notes	
01AMLA26SL (M108005-04) Soil					Sampled: 08/	02/01 Rece	eived: 08/02/	01		
Aroclor 1016	ND	147	ug/kg dry	1	EPA 8082	08/03/01	08/04/01	0108009		
Aroclor 1221	ND	294	"	"	"	"	"	"		
Aroclor 1232	ND	147	"	"	"	"	"	"		
Aroclor 1242	ND	147	"	"	"	"	"	"		
Aroclor 1248	ND	147	"	"	"	"	"	"		
Aroclor 1254	ND	147	"	"	"	"	"	"		
Aroclor 1260	ND	147	"	"	"	"	"	"		
Surr: 2,4,5,6-Tetrachloro-m-xylene	90.3 %	55-130								
Surr: Decachlorobiphenyl	68.7 %	55-130								
01AMLA36SL (M108005-05) Soil			Sampled: 08/02/01 Received: 08/02/01							
Aroclor 1016	ND	148	ug/kg dry	1	EPA 8082	08/03/01	08/04/01	0108009		
Aroclor 1221	ND	295	"	"	"	"	"	"		
Aroclor 1232	ND	148	"	"	"	"	"	"		
Aroclor 1242	ND	148	"	"	"	"	"	"		
Aroclor 1248	ND	148	"	"	"	"	"	"		
Aroclor 1254	ND	148	"	"	"	"	"	"		
Aroclor 1260	ND	148	"	"	"	"	"	"		
Surr: 2,4,5,6-Tetrachloro-m-xylene	110 %	55-130								
Surr: Decachlorobiphenyl	80.6 %	55-130								
01AMLA31SL (M108005-06) Soil					Sampled: 08/	02/01 Rece	eived: 08/02/	01		
Aroclor 1016	ND	146	ug/kg dry	1	EPA 8082	08/03/01	08/04/01	0108009		
Aroclor 1221	ND	293	"	"	"	"	"	"		
Aroclor 1232	ND	146	"	"	"	"	"	"		
Aroclor 1242	ND	146	"	"	"	"	"	"		
Aroclor 1248	ND	146	"	"	"	"	"	"		
Aroclor 1254	ND	146	"	"	"	"	"	"		
Aroclor 1260	ND	146	"	"	"	"	"	II.		
Surr: 2,4,5,6-Tetrachloro-m-xylene	107 %	55-130								
Surr: Decachlorobiphenyl	76.3 %	55-130								

North Creek Analytical - Mobile Lab



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Project: Amchitka

Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Bristol Environmental & Engineering

2000 W International Airport C#1

Project Manager: Anne Kranawetter

08/13/01 17:48

### Polychlorinated Biphenyls per EPA Method 8082 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA35SL (M108005-07) Soil					Sampled: 08/	02/01 Rece	eived: 08/02/	01	
Aroclor 1016	ND	146	ug/kg dry	1	EPA 8082	08/03/01	08/04/01	0108009	
Aroclor 1221	ND	292	"	"	"	"	"	"	
Aroclor 1232	ND	146	"	"	"	"	"	"	
Aroclor 1242	ND	146	"	"	"	"	"	"	
Aroclor 1248	ND	146	"	"	"	"	"	"	
Aroclor 1254	ND	146	"	"	"	"	"	"	
Aroclor 1260	ND	146	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	76.5 %	55-130							
Surr: Decachlorobiphenyl	58.5 %	55-130							

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

08/13/01 17:48

### Total Metals per EPA 6000/7000 Series Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA29SL (M108005-01) Soil					Sampled: 08/	02/01 Rece	ived: 08/02/0	01	
Mercury	ND	0.00441	mg/kg dry	1	EPA 1631	08/05/01	08/07/01	0108016	
01AMLA30SL (M108005-02) Soil					Sampled: 08/	02/01 Rece	ived: 08/02/0	01	
Mercury	ND	0.00451	mg/kg dry	1	EPA 1631	08/05/01	08/07/01	0108016	
01AMLA42SL (M108005-03) Soil					Sampled: 08/	02/01 Rece	ived: 08/02/0	01	
Mercury	ND	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/07/01	0108016	
01AMLA26SL (M108005-04) Soil					Sampled: 08/	02/01 Rece	ived: 08/02/0	01	
Mercury	0.00564	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/07/01	0108016	
01AMLA36SL (M108005-05) Soil					Sampled: 08/	02/01 Rece	ived: 08/02/0	01	
Mercury	0.0103	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/07/01	0108016	
01AMLA31SL (M108005-06) Soil					Sampled: 08/	02/01 Rece	ived: 08/02/0	01	
Mercury	0.00876	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/07/01	0108016	
01AMLA35SL (M108005-07) Soil					Sampled: 08/	02/01 Rece	ived: 08/02/0	01	
Mercury	ND	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/07/01	0108016	

North Creek Analytical - Mobile Lab



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Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

08/13/01 17:48

### Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA29SL (M108005-01) Soil				Sampled: 08/0	02/01 Rece	ived: 08/02/0	01	
% Solids	75.5	0.0100 % by Weight	1	Gravimetric	08/03/01	08/04/01	0108010	
01AMLA30SL (M108005-02) Soil				Sampled: 08/0	02/01 Rece	ived: 08/02/0	01	
% Solids	76.7	0.0100 % by Weight	1	Gravimetric	08/03/01	08/04/01	0108010	
01AMLA42SL (M108005-03) Soil				Sampled: 08/0	02/01 Rece	ived: 08/02/0	01	
% Solids	83.6	0.0100 % by Weight	1	Gravimetric	08/03/01	08/04/01	0108010	
01AMLA26SL (M108005-04) Soil				Sampled: 08/0	02/01 Rece	ived: 08/02/0	01	
% Solids	75.5	0.0100 % by Weight	1	Gravimetric	08/03/01	08/04/01	0108010	
01AMLA36SL (M108005-05) Soil				Sampled: 08/0	02/01 Rece	ived: 08/02/0	01	
% Solids	76.1	0.0100 % by Weight	1	Gravimetric	08/03/01	08/04/01	0108010	
01AMLA31SL (M108005-06) Soil				Sampled: 08/0	02/01 Rece	ived: 08/02/0	01	
% Solids	77.0	0.0100 % by Weight	1	Gravimetric	08/03/01	08/04/01	0108010	
01AMLA35SL (M108005-07) Soil				Sampled: 08/0	02/01 Rece	ived: 08/02/0	01	
% Solids	74.8	0.0100 % by Weight	1	Gravimetric	08/03/01	08/04/01	0108010	

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Bristol Environmental & Engineering

2000 W International Airport C#1 Project Number: 21090

Reported:

08/13/01 17:48

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

#### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

Project: Amchitka

#### North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

		Prepare	d & Analy	zed: 08/0	03/01			
ND	150 ug/kg wet							
ND	301 "							
ND	150 "							
ND	150 "							
ND	150 "							
ND	150 "							
ND	150 "							
213	"	200		107	55-130			
184	"	200		92.0	55-130			
		Prepare	d & Analy:	zed: 08/0	03/01			
837	150 ug/kg wet	833		100	55-130			
220	"	200		110	55-130			
186	"	200		93.0	55-130			
Sour	ce: M108005-01	Prepare	d: 08/03/01	l Analyz	zed: 08/04/0	1		
1220	167 ug/kg dry	1270	ND	96.1	55-130			
318	"	305		104	55-130			
247	"	305		81.0	55-130			
Sour	ce: M108005-01	Prepare	d: 08/03/01	l Analyz	zed: 08/04/0	)1		Q-01
618	167 ug/kg dry	1270	ND	48.7	55-130	65.5	40	
163	"	305		53.4	55-130			
114	"	305		37.4	55-130			
	ND ND ND ND ND ND ND 184  837 220 186  Soure 1220 318 247  Soure 618 163	ND 301 " ND 150 "  213 " 184 "  837 150 ug/kg wet  220 " 186 "  Source: M108005-01  1220 167 ug/kg dry  318 " 247 "  Source: M108005-01  618 167 ug/kg dry  163 "	ND 150 ug/kg wet ND 301 " ND 150 "  213 " 200 184 " 200  Prepare  837 150 ug/kg wet 833  220 " 200 186 " 200  Source: M108005-01 Prepare  1220 167 ug/kg dry 1270  318 " 305 247 " 305  Source: M108005-01 Prepare  618 167 ug/kg dry 1270  163 " 305	ND 150 ug/kg wet ND 301 " ND 150 " ND 213 " 200 213 " 200 Prepared & Analy 837 150 ug/kg wet 833  220 " 200  Source: M108005-01 Prepared: 08/03/01 1220 167 ug/kg dry 1270 ND 318 " 305 247 " 305  Source: M108005-01 Prepared: 08/03/01 618 167 ug/kg dry 1270 ND 163 " 305	ND 150 ug/kg wet ND 301 " ND 150 "  ND 150 "  Prepared & Analyzed: 08/0  837 150 ug/kg wet 833 100  220 " 200 93.0  Source: M108005-01 Prepared: 08/03/01 Analyzed: 08/0  318 " 305 104  247 " 305 81.0  Source: M108005-01 Prepared: 08/03/01 Analyzed: 08/03	ND 301 " ND 150 "  ND 150 "  ND 150 "  Prepared & Analyzed: 08/03/01  837 150 ug/kg wet 833 100 55-130  220 " 200 110 55-130  220 " 200 93.0 55-130  Source: M108005-01 Prepared: 08/03/01 Analyzed: 08/04/01  1220 167 ug/kg dry 1270 ND 96.1 55-130  318 " 305 104 55-130  Source: M108005-01 Prepared: 08/03/01 Analyzed: 08/04/01  550 Source: M108005-01 Prepared: 08/03/01 Analyzed: 08/04/01  NO Source: M108005-01 Prepared: 08/03/01 Analyzed: 08/04/01	ND	ND

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

08/13/01 17:48

#### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

	NOTU	<u>n Creek Anai</u>	<u>yucai - m</u>	odne Lai	U				
		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Uni	ts Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0108016 - EPA 1631									
Blank (0108016-BLK1)			Prepare	ed: 08/05/0	1 Analyz	ed: 08/07/0	)1		
Mercury	ND	0.00500 mg/kg	wet						
LCS (0108016-BS1)			Prepare	ed: 08/05/0	1 Analyz	ed: 08/07/0	)1		
Mercury	0.0101	0.00500 mg/kg	wet 0.0100		101	85-115			
<b>Duplicate (0108016-DUP1)</b>	Sou	rce: M107061-01	Prepare	ed: 08/05/0	1 Analyz	ed: 08/07/0	)1		Q-06
Mercury	0.0167	0.00500 mg/kg	dry	0.0105			45.6	20	
Matrix Spike (0108016-MS1)	Sou	rce: M107061-01	Prepare	ed: 08/05/0	1 Analyz	ed: 08/07/0	)1		Q-01
Mercury	0.0306	0.00500 mg/kg	dry 0.0133	0.0105	151	75-125			
Matrix Spike (0108016-MS2)	Sou	rce: M107061-02	2 Prepare	ed: 08/05/0	1 Analyz	ed: 08/07/0	)1		Q-01
Mercury	0.0249	0.00500 mg/kg	dry 0.0130	ND	163	75-125			

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 08/13/01 17:48

Project Manager: Anne Kranawetter

**Notes and Definitions** 

The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the

recovery for this analyte does not represent an out-of-control condition for the batch.

Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.

S-07 Surrogate recovery is out of control limits. QA criteria are met when one surrogate is within control limits.

DET Analyte DETECTED

Anchorage, AK 99502-1116

Q-01

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%. dry

Sample results reported on a wet weight basis (as received) wet

**RPD** Relative Percent Difference

North Creek Analytical - Mobile Lab

### **Items for Project Manager Review**

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M108005 FINAL 08 13 01 1748.mdb
			Default Report (not modified)
0108009-MSD1	8082 PCB		Q-01
0108009-MSD1	8082 PCB	Aroclor 1254	Exceeds RPD limit
0108009-MSD1	8082 PCB	Decachlorobiphenyl	Exceeds lower control limit
0108009-MSD1	8082 PCB	Aroclor 1254	Exceeds lower control limit
0108009-MSD1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	Exceeds lower control limit
0108016-DUP1	Hg Total CVAF 1631		Q-06
0108016-DUP1	Hg Total CVAF 1631	Mercury	Exceeds RPD limit
0108016-MS1	Hg Total CVAF 1631		Q-01
0108016-MS1	Hg Total CVAF 1631	Mercury	Exceeds upper control limit
0108016-MS2	Hg Total CVAF 1631		Q-01
0108016-MS2	Hg Total CVAF 1631	Mercury	Exceeds upper control limit
M108005-02	8082 PCB	Decachlorobiphenyl	S-07
M108005-02	8082 PCB	Decachlorobiphenyl	Exceeds lower control limit